



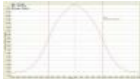



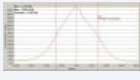



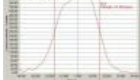













20.0mm Medium Spot Ripple Circular TIR (10003/15)



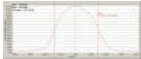



























































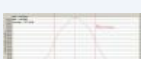




Part no.	10003/15
Drawing no.	60347
Family	20mm
Type	TIR
Diameter	20.0
Beam	Medium Spot
Finish	Ripple Circular



LEDs & Performances

Manu.	LED	Eff.	FWHM	Cd/lm	Spot	Cross section	.IES File
	Avago Jade White	90.70	28.3	3.90			
	Cree XLamp MX-6 White	89.50	27.5	3.80			
	Cree XLamp XM-L White	85.00	31	3.40			
	Cree XLamp XP-C White	86.40	15	7.70			
	Cree XLamp XP-E2 White		26	7.00			
	Cree XLamp XP-G White	85.70	28.8	4.30			

Manu.	LED	Eff.	FWHM	Cd/lm	Spot	Cross section	.IES File
	Cree XLamp XP-G2 White		28.2	4.90			
	Everlight Shuen White	85.00	29.1	4.30			
	LEDEngin 3W White	84.10	28.8	3.10			
	LEDEngin 5W White	84.10	29	3.20			
	Lumileds Luxeon C White	85.20	17.8	6.70			
	Luminus Devices SST-50 White	84.80	26.3	3.30			
	Nichia 219 White		29.2	5.10			
	Nichia Top Emitting NCSL 119-H3 White	87.40	28	5.10			
	Osram Dragon Plus W5AM White	86.30	17.8	6.40			
	Osram Oslon SSL 150 degree White	86.90	20.8	6.40			
	Osram Oslon SSL 80 degree White	85.60	28.6	5.20			
	Samsung 3535 White		21.8	7.10			
	SSC P4 White	89.00	27.3	3.40			
	SSC Z - Power Z1 White	83.80	29.1	2.90			
	SSC Z - Power Z5 White	87.80	23.9	6.70			
	SSC Z - Power Z5M White		27	5.00			

Manu.	LED	Eff.	FWHM	Cd/lm	Spot	Cross section	.IES File
	SSC Z - Power Z5P White		21.2	6.80	